

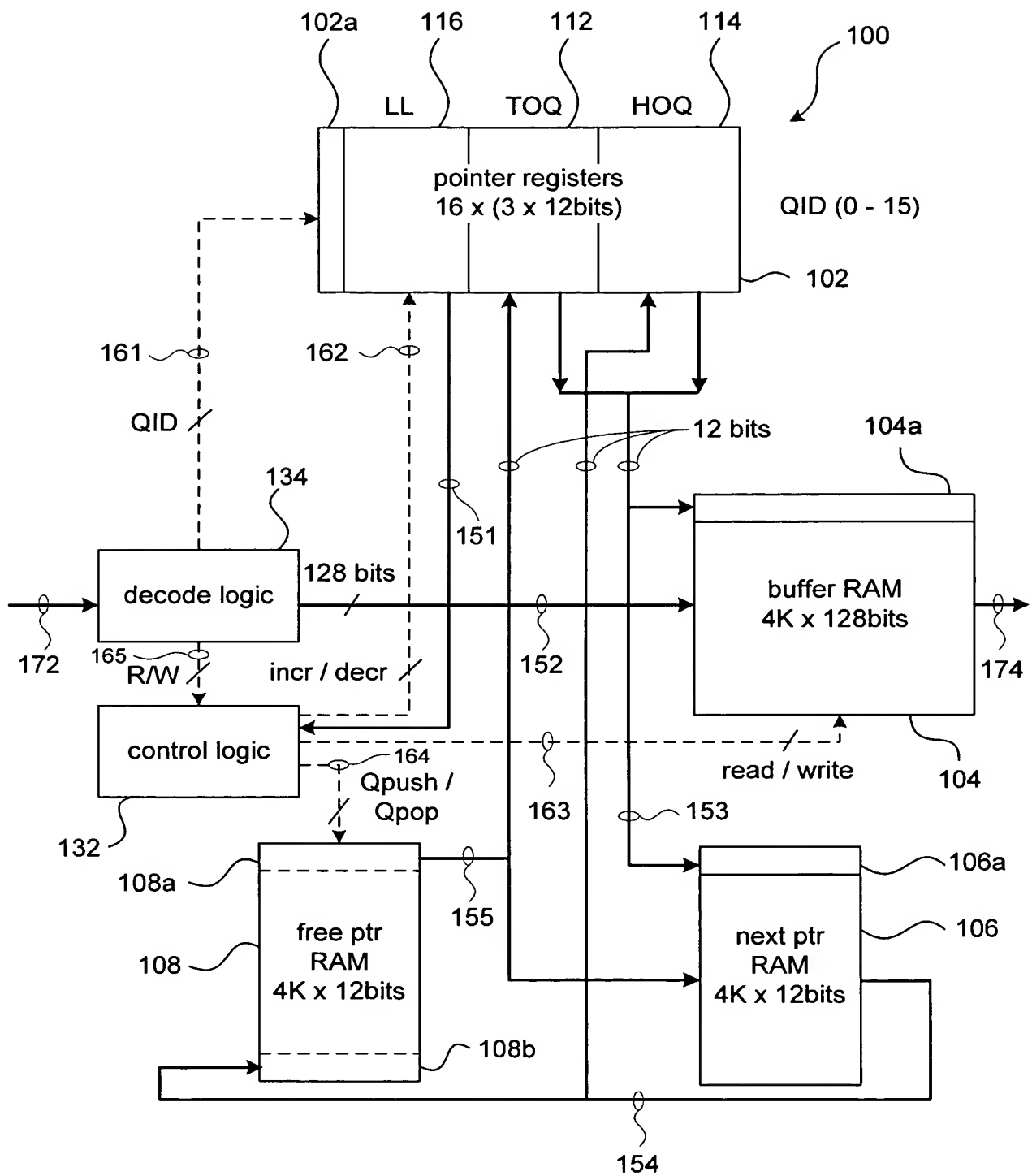
$+$ 

Fig. 1

+

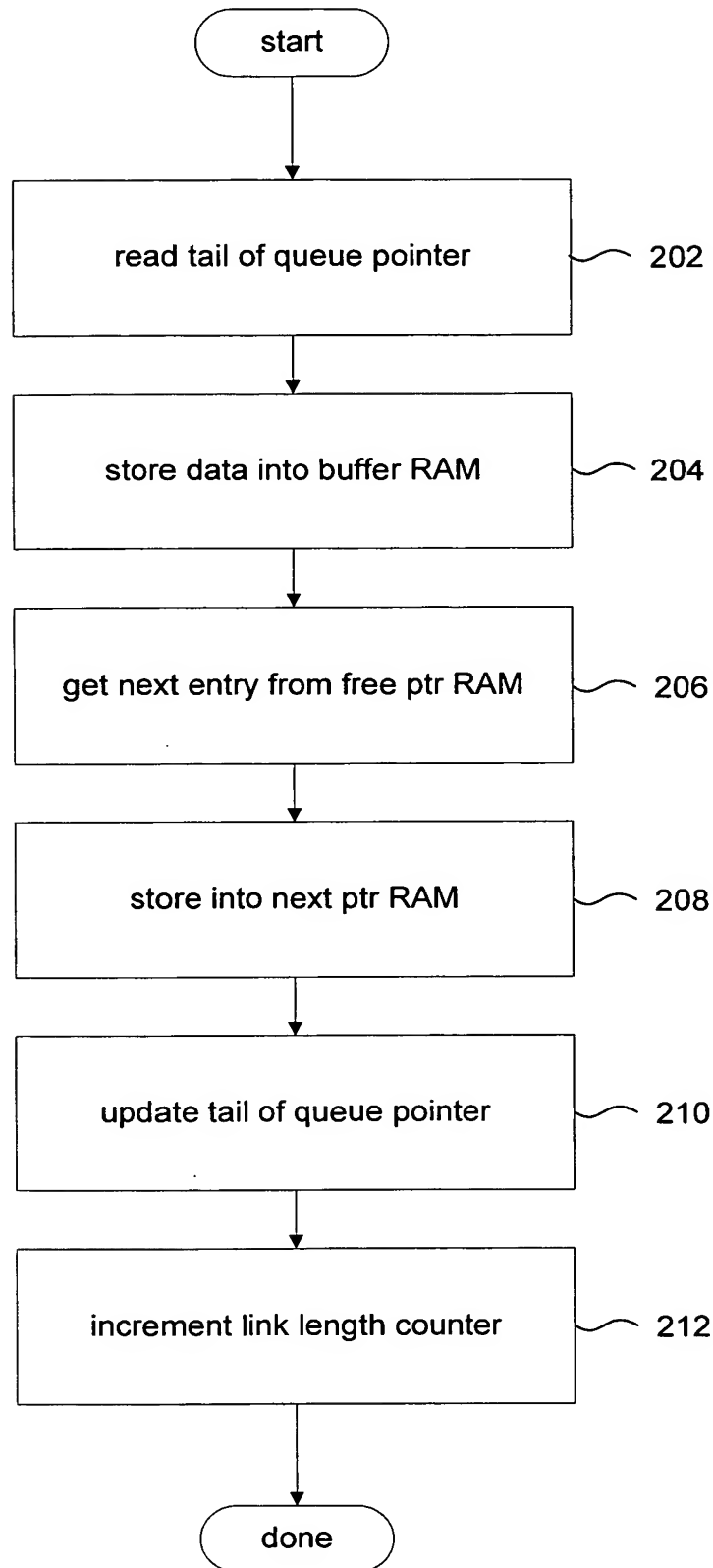


Fig. 2
(write)

+

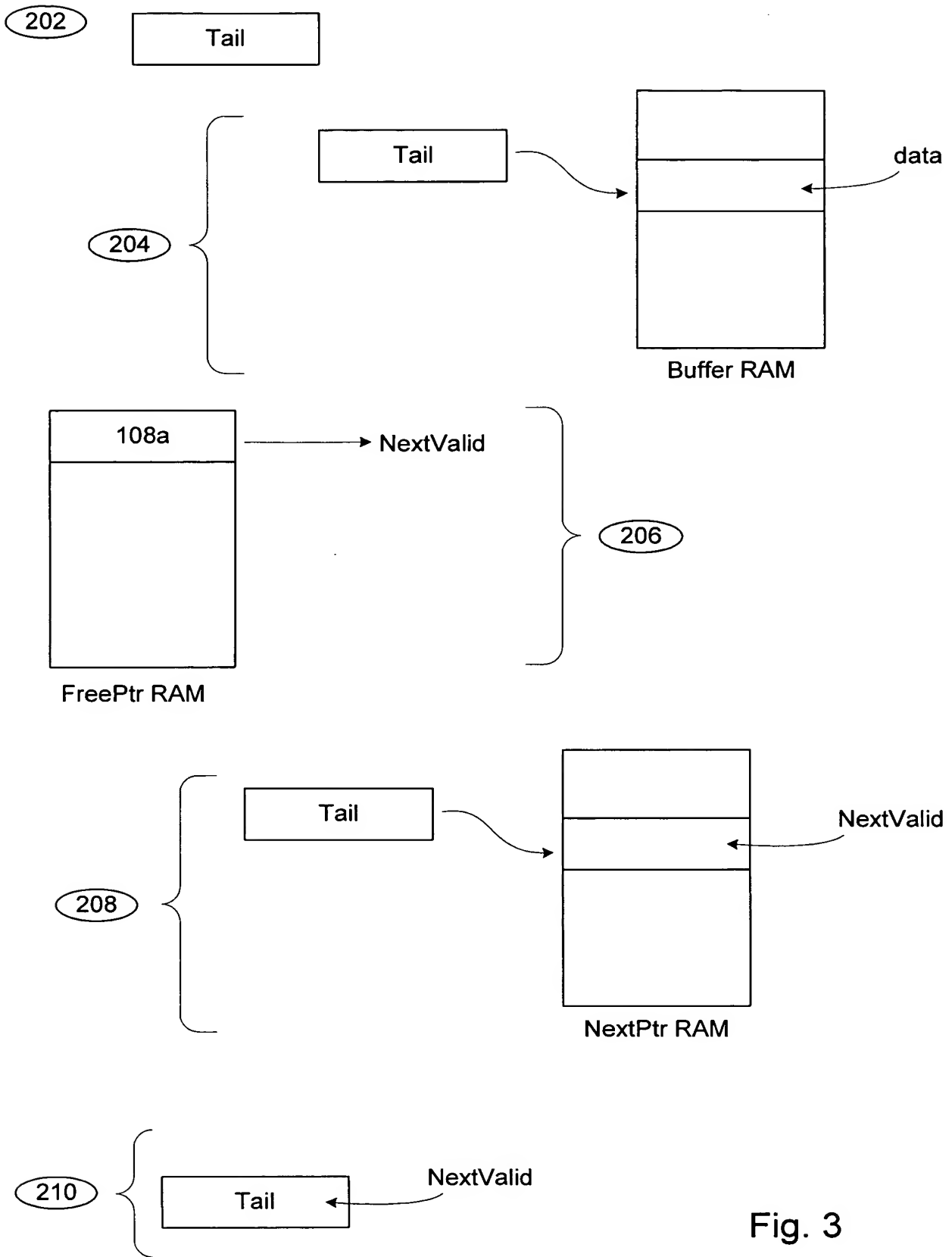


Fig. 3

+

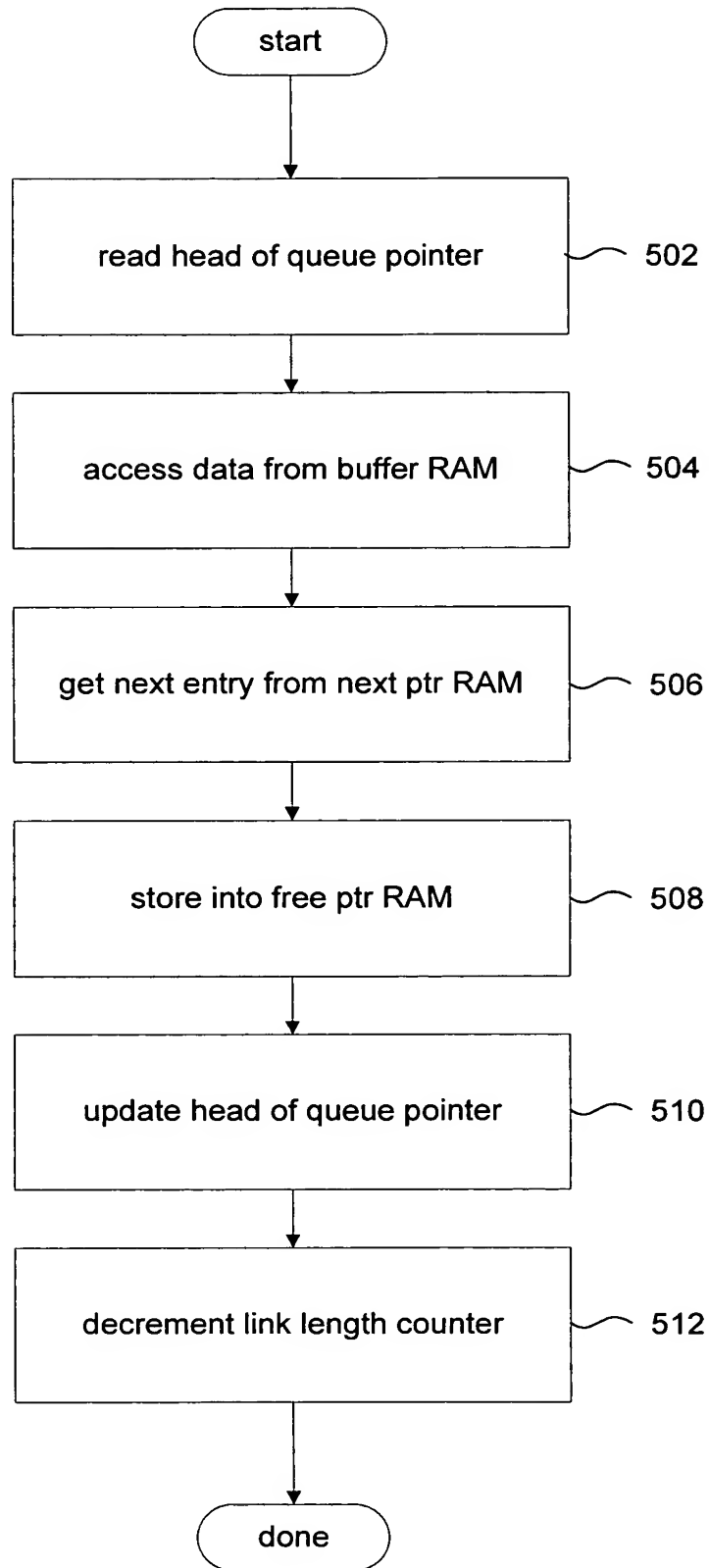


Fig. 5
(read)

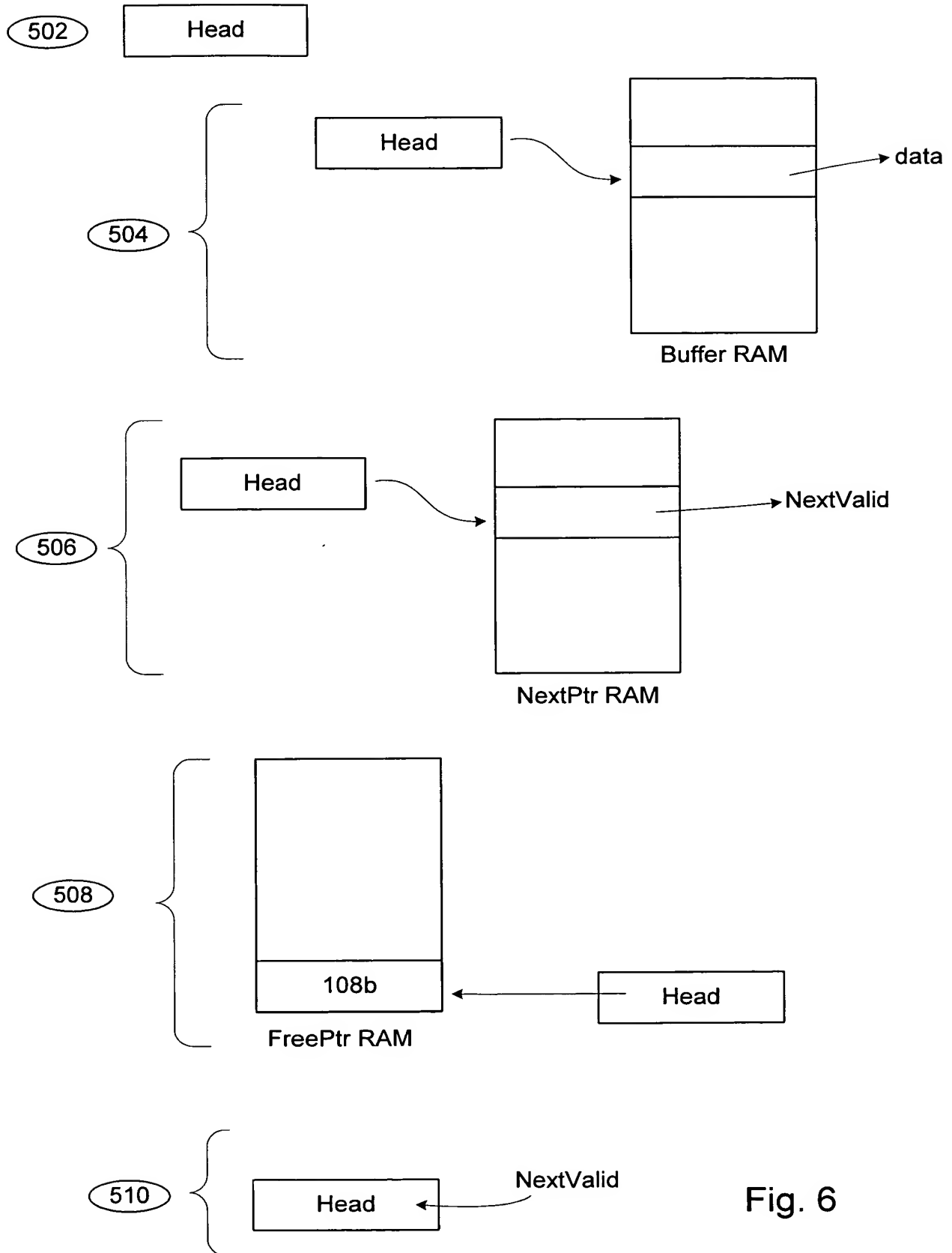


Fig. 6



Fig. 7
(read)

+

T1 = 17
bRAM (17) ← data4
pop fRAM = 19
nRAM(17) ← 19
T1 ← 19

T → T → B →	f RAM			n RAM			b RAM		
		16							
		17		1	16		1	data1	
		18							
		19		3	18		3	data3	
		20							
		21							
		:		16	17		16	data2	
		$2^{12} - 1$		17	19		17	data4	

Fig. 8E

T3 = 18
bRAM (18) ← data5
pop fRAM = 20
nRAM(18) ← 20
T3 ← 20

T → T → B →	f RAM			n RAM			b RAM		
		16							
		17		1	16		1	data1	
		18							
		19		3	18		3	data3	
		20							
		21							
		:		16	17		16	data2	
		$2^{12} - 1$		17	19		17	data4	
				18	20		18	data5	

Fig. 8F

H1 = 1
bRAM (1) = data1
nRAM(1) = 16
fRAM ← H1 (push)
H1 ← 16

T → B → B →	f RAM			n RAM			b RAM		
		16							
		17		1	16		1	data1	
		18		3	18		3	data3	
		19							
		20							
		21		16	17		16	data2	
		:		17	19		17	data4	
		$2^{12} - 1$		18	20		18	data5	
		1							

Fig. 8G

+

H3 = 3
 bRAM (3) = data3
 nRAM(3) = 18
 fRAM \leftarrow H3 (push)
 H3 \leftarrow 18

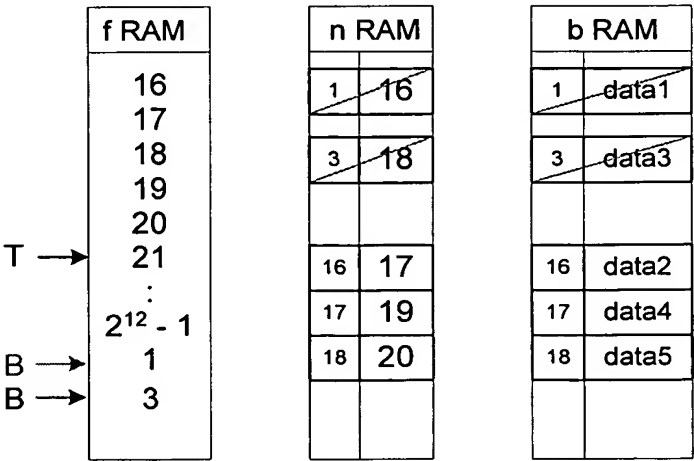


Fig. 8H

H3 = 18
 bRAM (18) = data5
 nRAM(18) = 20
 fRAM \leftarrow H3 (push)
 H3 \leftarrow 20

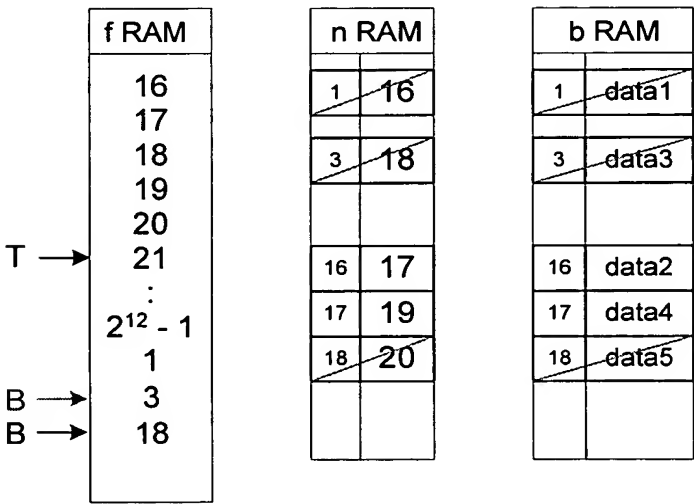


Fig. 8I

T1 = 19
 bRAM (19) \leftarrow data6
 pop fRAM = 21
 nRAM(19) \leftarrow 21
 T1 \leftarrow 21

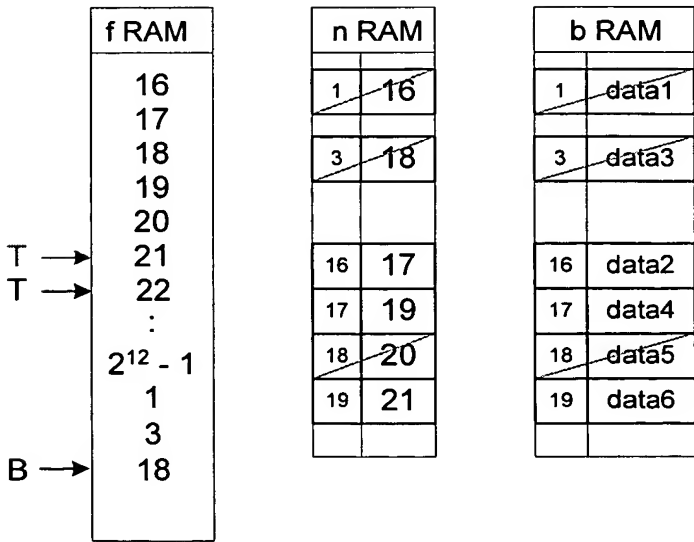


Fig. 8J